Rings Node

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MC Face-to-Face Meeting
Westwood, California
26,27 August 2014

Mission Highlights (1)

- Cassini – derived ring occultation datasets
  - 3 data sets, RSS, UVIS, & VIMS.
  - In lien resolution, PDS certified (CDAPS).
  - Profiles at two resolutions (1 km & 10 km) for each track.
  - 374 total profiles representing broadest longitudinal coverage of high resolution details of the rings at multiple wavelengths.
  - Provide new insight into ring particle sizes, dynamical interactions, and much more.
  - Projected for PDS4 migration in early FY15.

Mission Highlights (2)

- HST
  - OPUS supports search for planetary data from three instruments (ACS, WFPC2, WFC3).
  - We provide:
    - browse products,
    - pointers to STScI's MAST archive for the raw and calibrated data.

- OPUS2
  - Same search parameters
  - New look interface with major changes under the hood
  - Significantly faster
  - Finished internal alpha testing and are beginning external beta testing

Software (1)

- Software use, PDS4: oXygen, python, EN tools
- Software development
  - Dataset specific, python label migration tool
  - Public github repository for Python modules. https://github.com/SETI/pds-tools
    - Python-CSPICE interface
    - Julian library for general date-time parsing, UTC-TAI-TDB conversions and other operations.
    - SPICE text kernel reader
    - SPICE database tool for selecting and loading kernels
    - VICAR reader/writer
    - PDS3 parser
  - OOPS(object-oriented Python-SPICE interface) is still in active development; used for all our geometric metadata generation.

Software (2)

- Software (continued)
  - What you (and the user community) need?
    - LDD design tool

- Staffing issues
  - ~.4 FTE committed to support working groups and tiger Teams